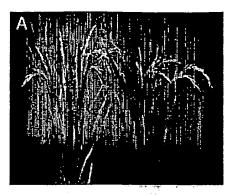
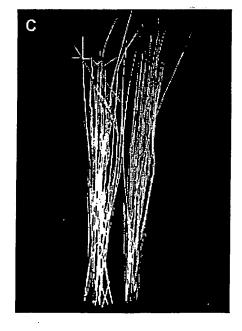
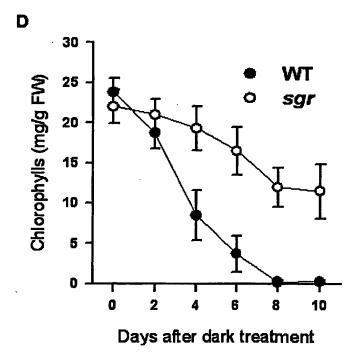


2/21 FIG. 2









3/21 FIG. 3

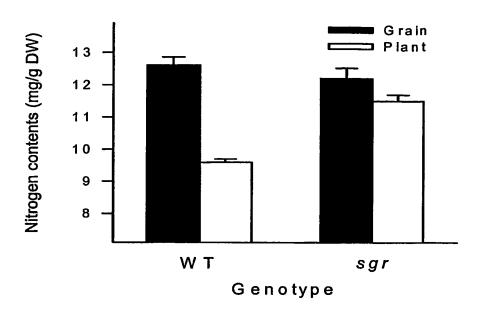
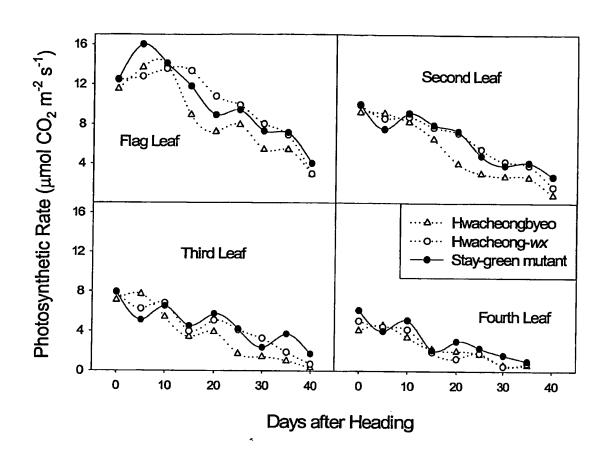


FIG. 4 ··· • Hwacheongbyeo ··· • Hwacheong-wx Stay-green mutant 0.0.0 15 10 Chlorophylls (mg/g FW) Second Leaf Flag Leaf 5 15 Fourth Leaf 10 5 Third Leaf 8:8:0 10 70 O 20 30 40 10 40 30 Days after Heading

4/21 FIG. 5



5/21 FIG. 6

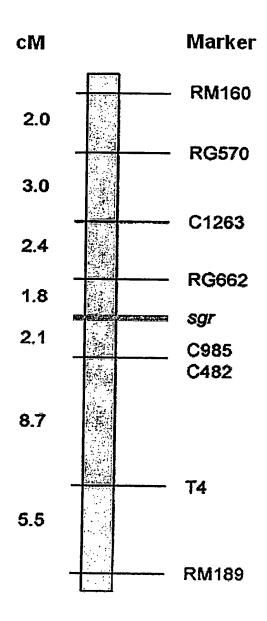
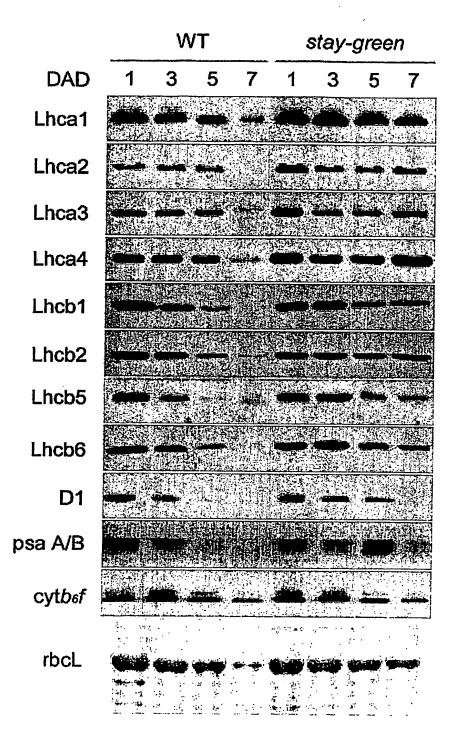


FIG. 7 Chl a Chl a Chi b Chl b stay~green (6~day dark treatment) Hwacheong-wx (6-day dark treatment) Chla Chl b Standard compounds Pheo a DAD1 A. 8:0-665,16 Ref-offPJS\02103007.0)

HPLC Running Time (min)

7/21 FIG. 8

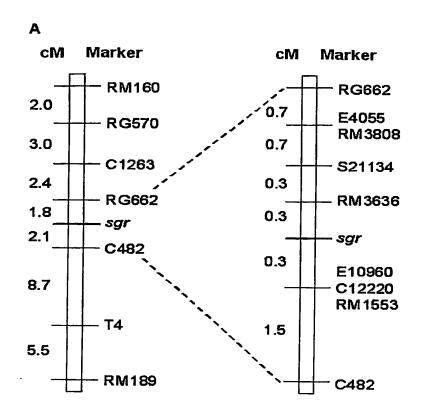


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9/21 FIG. 10



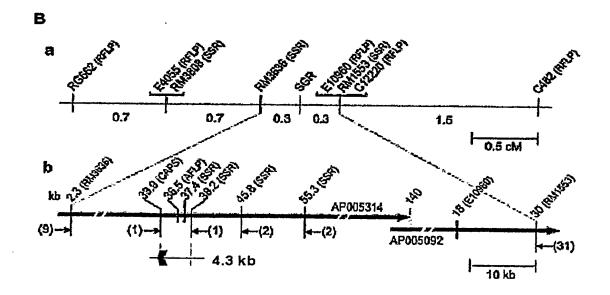


FIG. 11

AP005314 sgr	289 ctsgcsststcscaccatcaaccsgscscasctscassssststaacaasctscas 348
AP005314 sgr F ₂ (844)	289 ctggcggtgstacaacaacctgcagggggggggggggggg
AP005314 Hwacheong-wx (japonica)	289 ctsscsststcscaccatcaaccssscscasctscasssststaacaagctscas 348
AP005314 Milyang23 (indica)	289 ctsscsststcscaccatcaaccsgscscasctscagggstsstacaacaagctscag 348

FIG. 12

- 1 MAAATSTMSLLPPITQQQRWHAADSLVVLASRCHNSRRRRRCRYVVPRAR 50 chloroplast-targeting signal peptide
- (gtg)
 51 LFGPAIFEASKLKVLFLGVDEEKHQHPGKLPRTYTLTHSDVTARLTLAVS 100

 M
 (atg)
 (atg)
 (missense mutation)
- 101 HTINRAQLQGWYNKLQRDEVVAEWKKVQGHMSLHVHCHISGGHVLLDLIA 150
- 151 GLRYYIFRKELPVVLKAFVHGDGNLFSRHPELEEATVWVYFHSNLPRFNR 200
- 201 VECWGPLRDAGAPPEEDDAVAAAAAEEAAAEQMPAAGEWPRRCPGQCDCC 250
- 251 FPPYSLIPWPHQHDVAAADGQPQQ 274

11/21 FIG. 13

Darkness (days)

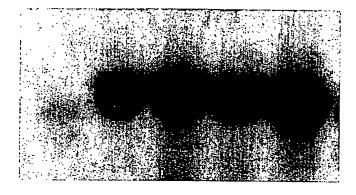


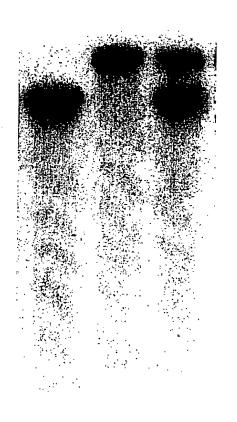
FIG. 14

_____2-d dark treatment control H₂O 6-BA ethephon (100μM) (150μM)]

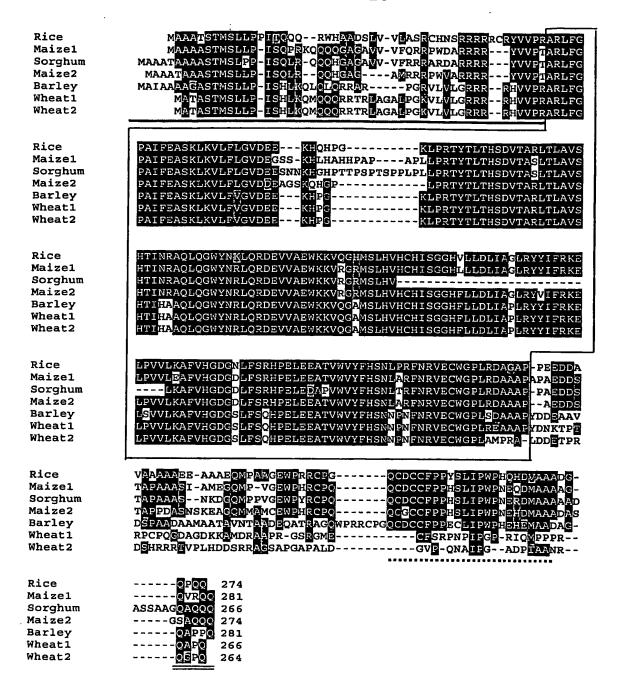


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12/21 FIG. 15 sgr M23 F₁ J I H



13/21 FIG. 16



14/21 FIG. 17

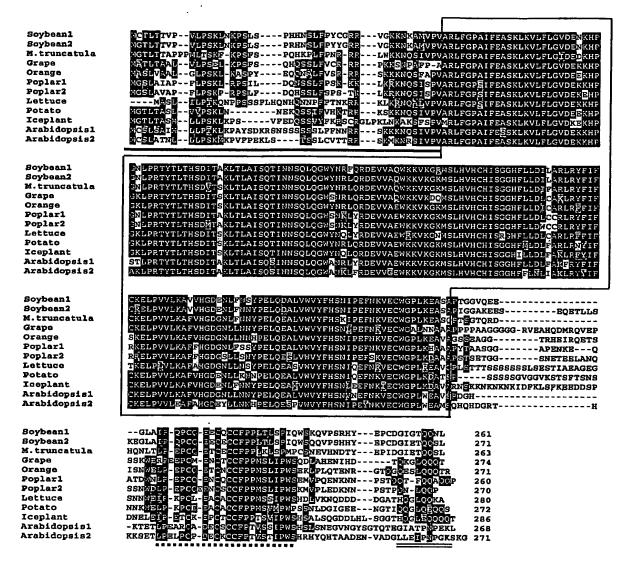
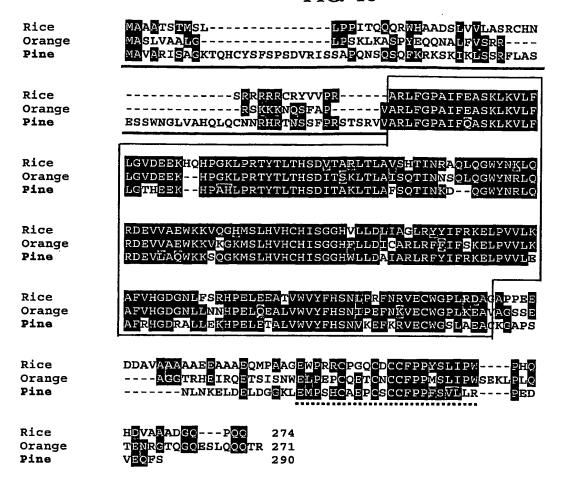


FIG. 18



16/21 FIG. 19

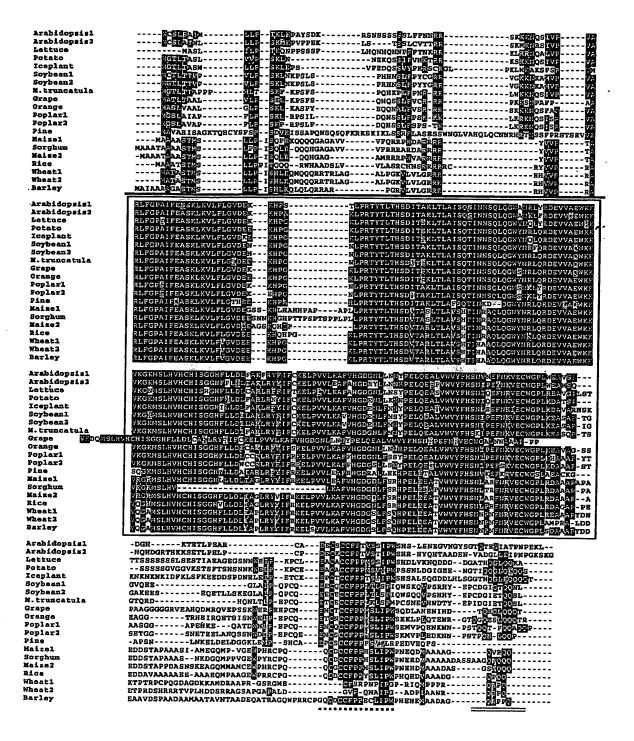
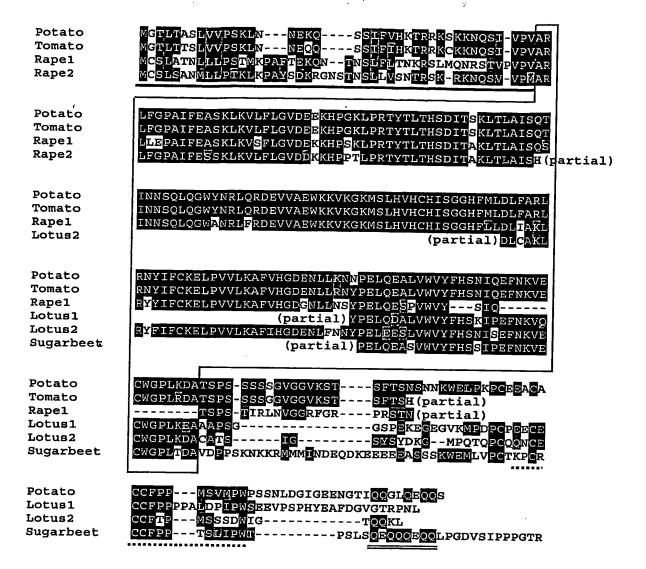


FIG. 20



18/21 FIG. 21

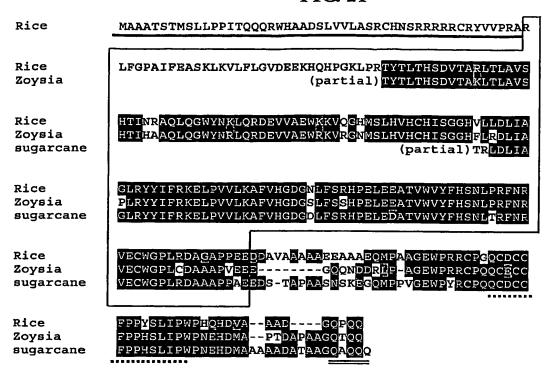


FIG. 22

Pine	MAVARISAGKTQHCYSFSPSDVRISSAPQNSQSQFKRKSKIKLSSRFLAS
Pine	ESSWNGLVAHQLQCNNRHRTNSSFPRSTSRVVARLFGPAIFQASKLKVLF
Pine Spruce	LGTHEEKHPAHLPRTYTLTHSDITAKLTLAFSQTINKDQGWYNRLQRD (partial) INKDQLQGWYNRLQRD
Pine	EVLAQWKKSQGKMSLHVHCHISGGHWLLDAIARLRFYIFRKELPVVLEAF
Spruce	EVLAQWKKSQGKMSLHVHCHISGGHWLLDAIARLRFYIFRKELPVVLEAF
Pine	RHGDRALLEKHPELETALVWVYFHSNVKEFKRVECWGSLAEACKGAPSNL
Spruce	RHGDRALLDKHPELETALVWVYFHSNVKEFKRVECWGSLAEACKGAPSNL
Pine	NKELD-ELDGGKLEMPSHCAEPCSCCFPPFSVLLRPEDVEQFS
Spruce	EKELDEEFNGEKLEMPSHCSEPCNCCFPPFSVLLRPEDAEQFI

19/21 FIG. 23

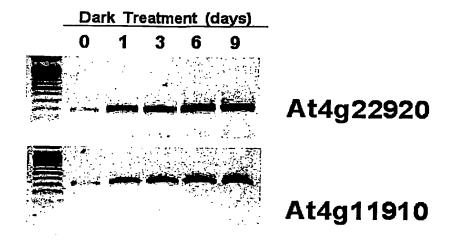
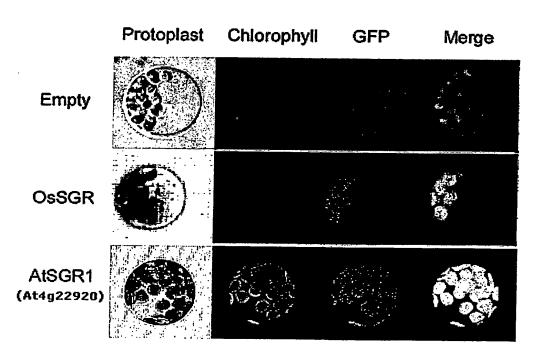
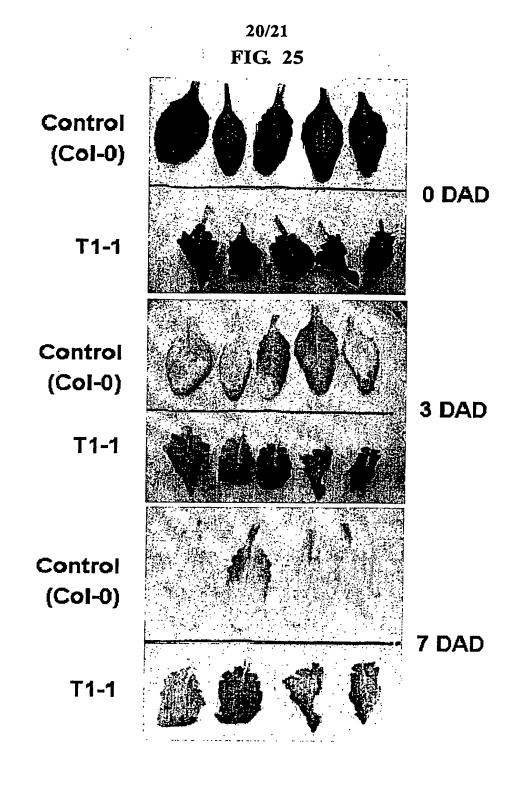
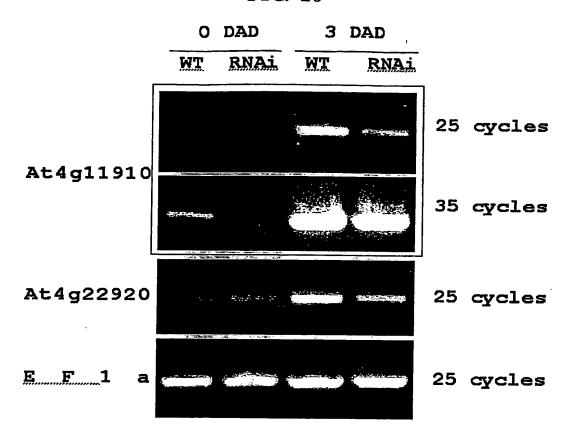


FIG. 24





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